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(54) Title: WATER-SOLUBLE ANIONIC BACTERIOCHLOROPHYLL DERIVATIVES AND THEIR USES

(57) Abstract: The invention provides anionic water-soluble tetracyclic and pentacyclic bacteriochlorophyll derivatives (Bchls) containing at least one, preferably two or three, negatively charged groups and/or acidic groups that are converted to negatively charged groups at the physiological pH, preferably Bchls having a group COO⁻, COS⁻, SO₃⁻, PO₃²⁻, COOH, COSH, SO₃H, and/or PO₃H₂ bound through an ester or amide bond to one or more of the positions 17³, 13³, and 3² of the tetracyclic or pentacyclic Bchl molecule, for photodynamic therapy and diagnosis.

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